

Abstract

5 The present invention provides a method and system for pattern  
recognition and processing. Information representative of physical  
characteristics or representations of physical characteristics is  
transformed into a Fourier series in Fourier space within an input context  
of the physical characteristics that is encoded in time as delays  
corresponding to modulation of the Fourier series at corresponding  
frequencies. Associations are formed between Fourier series by filtering  
10 the Fourier series and by using a spectral similarity between the filtered  
Fourier series to determine the association based on Poissonian  
probability. The associated Fourier series are added to form strings of  
Fourier series. Each string is ordered by filtering it with multiple  
selected filters to form multiple time order formatted subset Fourier  
15 series, and by establishing the order through associations with one or  
more initially ordered strings to form an ordered string. Associations are  
formed between the ordered strings to form complex ordered strings that  
relate similar items of interest. The components of the invention are  
active based on probability using weighting factors based on activation  
20 rates.